

Amendments to the Specification

Please replace the Abstract with the following amended Abstract:

An xDSL modem for data transmission between a central office and a customer device over a subscriber line includes a topology determining unit and a control unit. The, the xDSL modem having a topology determining unit is configured to determine the topology of the subscriber line. The control unit is configured to switch the xDSL modem between a normal mode for data transmission and a topology determining mode for determining the topology of the subscriber line.